

Serial Numbr: 09/913,351A1600  
5/21/2003 Changed a file from non-ASCII to ASCII**ENTERED** Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_ Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  page numbers throughout text;  other invalid text, such as \_\_\_\_\_ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other:



1600

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/913,351A

DATE: 07/14/2003  
TIME: 11:56:16

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\07142003\I913351A.raw

3 <110> APPLICANT: DELGADO, AURORA BRIEVA  
 4 VILLARRUBIA, VINCENTE GARCIA  
 5 GOMEZ-PAMO, ANTONIO GUERRERO  
 6 RANIERI, JUAN PABLO PIVEL  
 7 GALLEGOS, GUILLERMO GIMENEZ  
 8 TUDURI, JOSE ANTONIO MATJI  
 10 <120> TITLE OF INVENTION: PHARMACOLOGICALLY ACTIVE POLYPEPTIDE GLYCOCONJUGATES  
 12 <130> FILE REFERENCE: 618999-1/JP/B-4275  
 14 <140> CURRENT APPLICATION NUMBER: 09/913,351A  
 15 <141> CURRENT FILING DATE: 1999-10-21  
 17 <150> PRIOR APPLICATION NUMBER: PCT/ES99/00338  
 18 <151> PRIOR FILING DATE: 1999-10-21  
 20 <150> PRIOR APPLICATION NUMBER: ES P9900408  
 21 <151> PRIOR FILING DATE: 1999-02-26  
 23 <160> NUMBER OF SEQ ID NOS: 5  
 25 <170> SOFTWARE: PatentIn Ver. 2.1  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 230  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Artificial Sequence  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: Description of Artificial Sequence: Formula  
 34 sequence  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: MOD\_RES  
 38 <222> LOCATION: (1)..(48)  
 39 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass  
 40 3-48 amino acids  
 42 <220> FEATURE:  
 43 <221> NAME/KEY: MOD\_RES  
 44 <222> LOCATION: (50)..(62)  
 45 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass  
 46 9-13 amino acids  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: MOD\_RES  
 50 <222> LOCATION: (64)  
 51 <223> OTHER INFORMATION: Gln, Glu, Arg or Lys  
 53 <220> FEATURE:  
 54 <221> NAME/KEY: MOD\_RES  
 55 <222> LOCATION: (65)  
 56 <223> OTHER INFORMATION: Variable amino acid  
 59 <220> FEATURE:  
 60 <221> NAME/KEY: MOD\_RES

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61 <222> LOCATION: (66)  
62 <223> OTHER INFORMATION: Hydrophobic amino acid  
64 <220> FEATURE:  
65 <221> NAME/KEY: MOD\_RES  
66 <222> LOCATION: (67)  
67 <223> OTHER INFORMATION: Leu, Ile, Val or Met  
69 <220> FEATURE:  
70 <221> NAME/KEY: MOD\_RES  
71 <222> LOCATION: (68)..(106)  
72 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass  
73 15-39 amino acids  
75 <220> FEATURE:  
76 <221> NAME/KEY: MOD\_RES  
77 <222> LOCATION: (109)  
78 <223> OTHER INFORMATION: Hydrophilic amino acid  
80 <220> FEATURE:  
81 <221> NAME/KEY: MOD\_RES  
82 <222> LOCATION: (110)  
83 <223> OTHER INFORMATION: Gln, Glu or His  
85 <220> FEATURE:  
86 <221> NAME/KEY: MOD\_RES  
87 <222> LOCATION: (111)  
88 <223> OTHER INFORMATION: Leu or Val  
90 <220> FEATURE:  
91 <221> NAME/KEY: MOD\_RES  
92 <222> LOCATION: (112)..(117)  
93 <223> OTHER INFORMATION: Variable amino acid  
95 <220> FEATURE:  
96 <221> NAME/KEY: MOD\_RES  
97 <222> LOCATION: (119)  
98 <223> OTHER INFORMATION: Variable amino acid  
100 <220> FEATURE:  
101 <221> NAME/KEY: MOD\_RES  
102 <222> LOCATION: (121)..(122)  
103 <223> OTHER INFORMATION: Variable amino acid  
105 <220> FEATURE:  
106 <221> NAME/KEY: MOD\_RES  
107 <222> LOCATION: (123)  
108 <223> OTHER INFORMATION: Leu or Ile  
110 <220> FEATURE:  
111 <221> NAME/KEY: MOD\_RES  
112 <222> LOCATION: (124)..(179)  
113 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass  
114 13-56 amino acids  
117 <220> FEATURE:  
118 <221> NAME/KEY: MOD\_RES  
119 <222> LOCATION: (181)..(206)  
120 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass  
121 15-26 amino acids

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123 <220> FEATURE:  
124 <221> NAME/KEY: MOD\_RES  
125 <222> LOCATION: (208)  
126 <223> OTHER INFORMATION: Variable amino acid  
128 <220> FEATURE:  
129 <221> NAME/KEY: MOD\_RES  
130 <222> LOCATION: (209)  
131 <223> OTHER INFORMATION: Val, Ile, Leu or Met  
133 <220> FEATURE:  
134 <221> NAME/KEY: MOD\_RES  
135 <222> LOCATION: (210)..(217)  
136 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass  
137 1-8 amino acids  
139 <220> FEATURE:  
140 <221> NAME/KEY: MOD\_RES  
141 <222> LOCATION: (218)..(230)  
142 <223> OTHER INFORMATION: Variable amino acid; this Xaa range may encompass  
143 1-12 amino acids  
145 <400> SEQUENCE: 1

W--> 146 Xaa  
147 1 5 10 15  
149 Xaa  
150 20 25 30  
152 Xaa  
153 35 40 45  
155 Cys Xaa Cys Xaa  
156 50 55 60  
158 Xaa  
159 65 70 75 80  
161 Xaa  
162 85 90 95  
164 Xaa Cys Cys Xaa Xaa Xaa Xaa Xaa Xaa  
165 100 105 110  
167 Xaa Xaa Xaa Xaa Cys Xaa Cys Xaa  
168 115 120 125  
170 Xaa  
171 130 135 140  
173 Xaa  
174 145 150 155 160  
176 Xaa  
177 165 170 175  
179 Xaa Xaa Xaa Gly Xaa  
180 180 185 190  
182 Xaa Cys Xaa  
183 195 200 205  
185 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
186 210 215 220  
188 Xaa Xaa Xaa Xaa Xaa  
189 225 230

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Input Set : A:\PTO.AMC.txt  
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192 <210> SEQ ID NO: 2  
193 <211> LENGTH: 37  
194 <212> TYPE: PRT  
195 <213> ORGANISM: Ricinus communis  
197 <400> SEQUENCE: 2  
198 Glu Ser Lys Gly Glu Arg Glu Gly Ser Ser Ser Gln Gln Cys Arg Gln  
199 1 5 10 15  
201 Glu Val Gln Arg Lys Asp Leu Ser Ser Cys Glu Arg Tyr Leu Arg Gln  
202 20 25 30  
204 Ser Ser Ser Arg Arg  
205 35  
208 <210> SEQ ID NO: 3  
209 <211> LENGTH: 68  
210 <212> TYPE: PRT  
211 <213> ORGANISM: Ricinus communis  
213 <400> SEQUENCE: 3  
214 Gln Gln Gln Glu Ser Gln Gln Leu Gln Gln Cys Cys Asn Gln Val Lys  
215 1 5 10 15  
217 Gln Val Arg Asp Glu Cys Gln Cys Glu Ala Ile Lys Tyr Ile Ala Glu  
218 20 25 30  
220 Asp Gln Ile Gln Gln Gly Gln Leu His Gly Glu Glu Ser Glu Arg Val  
221 35 40 45  
223 Ala Gln Arg Ala Gly Glu Ile Val Ser Ser Cys Gly Val Arg Cys Met  
224 50 55 60  
226 Arg Gln Thr Arg  
227 65  
230 <210> SEQ ID NO: 4  
231 <211> LENGTH: 34  
232 <212> TYPE: PRT  
233 <213> ORGANISM: Ricinus communis  
235 <400> SEQUENCE: 4  
236 Pro Ser Gln Gln Gly Cys Arg Gly Gln Ile Gln Glu Gln Gln Asn Leu  
237 1 5 10 15  
239 Arg Gln Cys Gln Glu Tyr Ile Lys Gln Gln Val Ser Gly Gln Gly Pro  
240 20 25 30  
242 Arg Arg  
246 <210> SEQ ID NO: 5  
247 <211> LENGTH: 65  
248 <212> TYPE: PRT  
249 <213> ORGANISM: Ricinus communis  
251 <400> SEQUENCE: 5  
252 Gln Glu Arg Ser Leu Arg Gly Cys Cys Asp His Leu Lys Gln Met Gln  
253 1 5 10 15  
255 Ser Gln Cys Arg Cys Glu Gly Leu Arg Gln Ala Ile Glu Gln Gln Gln  
256 20 25 30  
258 Ser Gln Gly Gln Leu Gln Gly Gln Asp Val Phe Glu Ala Phe Arg Thr  
259 35 40 45  
261 Ala Ala Asn Leu Pro Ser Met Cys Gly Val Ser Pro Thr Glu Cys Arg  
262 50 55 60

**RAW SEQUENCE LISTING**

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TIME: 11:56:16

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07142003\I913351A.raw

264 Phe

265 65

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/14/2003  
PATENT APPLICATION: US/09/913,351A TIME: 11:56:17

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\07142003\I913351A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:1; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41  
Seq#:1; Xaa Pos. 42,43,44,45,46,47,48,50,51,52,53,54,55,56,57,58,59,60,61  
Seq#:1; Xaa Pos. 62,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81  
Seq#:1; Xaa Pos. 82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100  
Seq#:1; Xaa Pos. 101,102,103,104,105,106,109,110,111,112,113,114,115,116  
Seq#:1; Xaa Pos. 117,119,121,122,123,124,125,126,127,128,129,130,131,132  
Seq#:1; Xaa Pos. 133,134,135,136,137,138,139,140,141,142,143,144,145,146  
Seq#:1; Xaa Pos. 147,148,149,150,151,152,153,154,155,156,157,158,159,160  
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Seq#:1; Xaa Pos. 204,205,206,208,209,210,211,212,213,214,215,216,217,219  
Seq#:1; Xaa Pos. 220,221,222,223,224,225,226,227,228,229,230